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Halogen-free floor or wall covering material, giving performance similar to PVC, is based on a blend of polyvinyl butyral and ethylene-vinyl acetate copolymer with glycol benzoate plasticizer

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Patent Family

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Abstract:

EP 1104783 A1

NOVELTY A floor or wall covering material comprises:

(A) a mixture of plasticizer-free polyvinyl butyral (PVB) and ethylene-vinyl acetate (EVA) copolymer (16-50 wt.%);

(B) a glycol benzoate plasticizer (10-45 wt.% based on wt. of (A)); and

(C) a filler and auxiliaries (balance).

USE Halogen-free floor and wall coverings based on sub-standard PVB (e.g. based on acetalization residues).

ADVANTAGE Unlike the sub-standard PVB-based composition of EP664355 this composition can also be based on sub-standard PVB while being free of plasticizer migration and being equivalent to PVC in performance.

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Technology Focus:

TECHNOLOGY FOCUS - POLYMERS - Preferred Materials: The PVB is a sub-standard, plasticizer-free PVB (i.e. one not meeting the specifications for conventional uses and based e.g. on acetalization residues) and has a Hoeppler DIN 53015 viscosity (5% n-BuOH solution at 20 degrees C) no lower than 50 mPa.s and a residual moisture content below 1.5 wt.%. The EVA copolymer has a vinyl acetate content of 25-32 wt.%. The filler is predominantly of CaCO₃.

Preferred Composition: The composition comprises 15-33 (especially 20-29) wt.% of PVB and 1-17 (especially 1-15) wt.% of EVA copolymer. The plasticizer content being 15-33 wt.% based on the polymer weight.

Preferred Product : It Is a two-layered with 32-44 wt.% polymer in the upper layer and 21-34 wt.% in the lower layer.

ORGANIC CHEMISTRY - Preferred Composition: The glycol benzoate plasticizer is present at 15-33 wt.% based on the polymer weight.

INORGANIC CHEMISTRY - Preferred Material: The filler is predominantly of CaCO₃.

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